

Carlson

1652

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/079,569

DATE: 07/30/98
TIME: 10:19:28

INPUT SET: S3286.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

#4
RSD

SEQUENCE LISTING

ENTERED

1
2
3 (1) General Information:
4
5 (i) APPLICANT: Boyle, William J.
6
7 (ii) TITLE OF INVENTION: OSTEOPROTEGERIN BINDING PROTEINS
8
9 (iii) NUMBER OF SEQUENCES: 7
10
11 (iv) CORRESPONDENCE ADDRESS:
12 (A) ADDRESSEE: Amgen Inc.
13 (B) STREET: 1840 Dehavilland Drive
14 (C) CITY: Thousand Oaks
15 (D) STATE: California
16 (E) COUNTRY: USA
17 (F) ZIP: 91230-1789
18
19 (v) COMPUTER READABLE FORM:
20 (A) MEDIUM TYPE: Floppy disk
21 (B) COMPUTER: IBM PC compatible
22 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
23 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
24
25 (vi) CURRENT APPLICATION DATA:
26 (A) APPLICATION NUMBER: 09/079,569
27 (B) FILING DATE:
28 (C) CLASSIFICATION:
29
30 (vii) PRIOR APPLICATION DATA:
31 (A) APPLICATION NUMBER: 08/842,842
32 (B) FILING DATE:
33
34 (viii) ATTORNEY/AGENT INFORMATION:
35 (A) NAME: Winter, Robert B.
36 (C) REFERENCE/DOCKET NUMBER: A-451
37
38
39 (2) INFORMATION FOR SEQ ID NO:1:
40
41 (i) SEQUENCE CHARACTERISTICS:
42 (A) LENGTH: 52 base pairs
43 (B) TYPE: nucleic acid
44 (C) STRANDEDNESS: single
45 (D) TOPOLOGY: linear
46

RAW SEQUENCE LISTING
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47 (ii) MOLECULE TYPE: cDNA

48

49

50

51

52 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

53

54 GTTCTCCTCA TATGGATCCA AACCGTATTT CTGAAGACAG CACTCACTGC TT

52

55

56 (2) INFORMATION FOR SEQ ID NO:2:

57

58 (i) SEQUENCE CHARACTERISTICS:

59 (A) LENGTH: 37 base pairs

60 (B) TYPE: nucleic acid

61 (C) STRANDEDNESS: single

62 (D) TOPOLOGY: linear

63

64 (ii) MOLECULE TYPE: cDNA

65

66

67

68

69 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

70

71 TACGCACTCC GCGGTTAGTC TATGTCCTGA ACTTTGA

37

72

73 (2) INFORMATION FOR SEQ ID NO:3:

74

75 (i) SEQUENCE CHARACTERISTICS:

76 (A) LENGTH: 53 base pairs

77 (B) TYPE: nucleic acid

78 (C) STRANDEDNESS: single

79 (D) TOPOLOGY: linear

80

81 (ii) MOLECULE TYPE: cDNA

82

83

84

85

86 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

87

88 GTTCTCCTCA TATGAAACCT GAAGCTCAAC CATTTCACACA CCTCACCATC AAT

53

89

90 (2) INFORMATION FOR SEQ ID NO:4:

91

92 (i) SEQUENCE CHARACTERISTICS:

93 (A) LENGTH: 45 base pairs

94 (B) TYPE: nucleic acid

95 (C) STRANDEDNESS: single

96 (D) TOPOLOGY: linear

97

98 (ii) MOLECULE TYPE: cDNA

99

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100
101
102
103 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
104
105 GTTCTCCTCA TATGCATTTA ACTATTAACG CTGCATCTAT CCCAT 45
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107 (2) INFORMATION FOR SEQ ID NO:5:
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109 (i) SEQUENCE CHARACTERISTICS:
110 (A) LENGTH: 59 base pairs
111 (B) TYPE: nucleic acid
112 (C) STRANDEDNESS: single
113 (D) TOPOLOGY: linear
114
115 (ii) MOLECULE TYPE: cDNA
116
117
118
119
120 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
121
122 GTTCTCCTCA TATGACTATT AACGCTGCAT CTATCCCATC GGGTTCCCAT AAAGTCACT 59
123
124 (2) INFORMATION FOR SEQ ID NO:6:
125
126 (i) SEQUENCE CHARACTERISTICS:
127 (A) LENGTH: 2295 base pairs
128 (B) TYPE: nucleic acid
129 (C) STRANDEDNESS: single
130 (D) TOPOLOGY: linear
131
132 (ii) MOLECULE TYPE: cDNA
133
134
135 (ix) FEATURE:
136 (A) NAME/KEY: CDS
137 (B) LOCATION: 158..1105
138
139
140 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
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142 GAGCTCGGAT CCACTACTCG ACCCACGCGT CCGGCCAGGA CCTCTGTGAA CCGGTCGGGG 60
143
144 CGGGGGCCGC CTGGCCGGGA GTCTGCTCGG CGGTGGGTGG CCGAGGAAGG GAGAGAACGA 120
145
146 TCGCGGAGCA GGGCGCCCGA ACTCCGGGCG CCGCGCC ATG CGC CGG GCC AGC CGA 175
147 Met Arg Arg Ala Ser Arg
148 1 5
149
150 GAC TAC GGC AAG TAC CTG CGC AGC TCG GAG GAG ATG GGC AGC GGC CCC 223
151 Asp Tyr Gly Lys Tyr Leu Arg Ser Ser Glu Glu Met Gly Ser Gly Pro
152 10 15 20

153																		
154	GGC	GTC	CCA	CAC	GAG	GGT	CCG	CTG	CAC	CCC	GCG	CCT	TCT	GCA	CCG	GCT		271
155	Gly	Val	Pro	His	Glu	Gly	Pro	Leu	His	Pro	Ala	Pro	Ser	Ala	Pro	Ala		
156			25					30					35					
157																		
158	CCG	GCG	CCG	CCA	CCC	GCC	GCC	TCC	CGC	TCC	ATG	TTC	CTG	GCC	CTC	CTG		319
159	Pro	Ala	Pro	Pro	Pro	Ala	Ala	Ser	Arg	Ser	Met	Phe	Leu	Ala	Leu	Leu		
160		40					45					50						
161																		
162	GGG	CTG	GGA	CTG	GGC	CAG	GTG	GTC	TGC	AGC	ATC	GCT	CTG	TTC	CTG	TAC		367
163	Gly	Leu	Gly	Leu	Gly	Gln	Val	Val	Cys	Ser	Ile	Ala	Leu	Phe	Leu	Tyr		
164	55					60					65					70		
165																		
166	TTT	CGA	GCG	CAG	ATG	GAT	CCT	AAC	AGA	ATA	TCA	GAA	GAC	AGC	ACT	CAC		415
167	Phe	Arg	Ala	Gln	Met	Asp	Pro	Asn	Arg	Ile	Ser	Glu	Asp	Ser	Thr	His		
168					75					80					85			
169																		
170	TGC	TTT	TAT	AGA	ATC	CTG	AGA	CTC	CAT	GAA	AAC	GCA	GGT	TTG	CAG	GAC		463
171	Cys	Phe	Tyr	Arg	Ile	Leu	Arg	Leu	His	Glu	Asn	Ala	Gly	Leu	Gln	Asp		
172				90					95					100				
173																		
174	TCG	ACT	CTG	GAG	AGT	GAA	GAC	ACA	CTA	CCT	GAC	TCC	TGC	AGG	AGG	ATG		511
175	Ser	Thr	Leu	Glu	Ser	Glu	Asp	Thr	Leu	Pro	Asp	Ser	Cys	Arg	Arg	Met		
176			105					110					115					
177																		
178	AAA	CAA	GCC	TTT	CAG	GGG	GCC	GTG	CAG	AAG	GAA	CTG	CAA	CAC	ATT	GTG		559
179	Lys	Gln	Ala	Phe	Gln	Gly	Ala	Val	Gln	Lys	Glu	Leu	Gln	His	Ile	Val		
180		120					125					130						
181																		
182	GGG	CCA	CAG	CGC	TTC	TCA	GGA	GCT	CCA	GCT	ATG	ATG	GAA	GGC	TCA	TGG		607
183	Gly	Pro	Gln	Arg	Phe	Ser	Gly	Ala	Pro	Ala	Met	Met	Glu	Gly	Ser	Trp		
184	135					140					145					150		
185																		
186	TTG	GAT	GTG	GCC	CAG	CGA	GGC	AAG	CCT	GAG	GCC	CAG	CCA	TTT	GCA	CAC		655
187	Leu	Asp	Val	Ala	Gln	Arg	Gly	Lys	Pro	Glu	Ala	Gln	Pro	Phe	Ala	His		
188					155					160					165			
189																		
190	CTC	ACC	ATC	AAT	GCT	GCC	AGC	ATC	CCA	TCG	GGT	TCC	CAT	AAA	GTC	ACT		703
191	Leu	Thr	Ile	Asn	Ala	Ala	Ser											

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206	CCT ACA GAC TAT CTT CAG CTG ATG GTG TAT GTC GTT AAA ACC AGC ATC	895
207	Pro Thr Asp Tyr Leu Gln Leu Met Val Tyr Val Val Lys Thr Ser Ile	
208	235 240 245	
209		
210	AAA ATC CCA AGT TCT CAT AAC CTG ATG AAA GGA GGG AGC ACG AAA AAC	943
211	Lys Ile Pro Ser Ser His Asn Leu Met Lys Gly Gly Ser Thr Lys Asn	
212	250 255 260	
213		
214	TGG TCG GGC AAT TCT GAA TTC CAC TTT TAT TCC ATA AAT GTT GGG GGA	991
215	Trp Ser Gly Asn Ser Glu Phe His Phe Tyr Ser Ile Asn Val Gly Gly	
216	265 270 275	
217		
218	TTT TTC AAG CTC CGA GCT GGT GAA GAA ATT AGC ATT CAG GTG TCC AAC	1039
219	Phe Phe Lys Leu Arg Ala Gly Glu Glu Ile Ser Ile Gln Val Ser Asn	
220	280 285 290	
221		
222	CCT TCC CTG CTG GAT CCG GAT CAA GAT GCG ACG TAC TTT GGG GCT TTC	1087
223	Pro Ser Leu Leu Asp Pro Asp Gln Asp Ala Thr Tyr Phe Gly Ala Phe	
224	295 300 305 310	
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226	AAA GTT CAG GAC ATA GAC TGAGACTCAT TTCGTGGAAC ATTAGCATGG	1135
227	Lys Val Gln Asp Ile Asp	
228	315	
229		
230	ATGTCCTAGA TGTTTGGAAA CTTCTTAAAA AATGGATGAT GTCTATACAT GTGTAAGACT	1195
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232	ACTAAGAGAC ATGGCCCACG GTGTATGAAA CTCACAGCCC TCTCTCTTGA GCCTGTACAG	1255
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234	GTTGTGTATA TGTAAGTCC ATAGGTGATG TTAGATTCAT GGTGATTACA CAACGGTTTT	1315
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236	ACAATTTTGT AATGATTTCC TAGAATTGAA CCAGATTGGG AGAGGTATTC CGATGCTTAT	1375
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238	GAAAACTTA CACGTGAGCT ATGGAAGGGG GTCACAGTCT CTGGGTCTAA CCCCTGGACA	1435
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240	TGTGCCACTG AGAACCTTGA AATTAAGAGG ATGCCATGTC ATTGCAAAGA AATGATAGTG	1495
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242	TGAAGGGTTA AGTTCTTTTG AATTGTTACA TTGCGCTGGG ACCTGCAAAT AAGTTCTTTT	1555
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244	TTTCTAATGA GGAGAGAAAA ATATATGTAT TTTTATATAA TGTCTAAAGT TATATTTTCAG	1615
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246	GTGTAATGTT TTCTGTGCAA AGTTTTGTAA ATTATATTTG TGCTATAGTA TTTGATTCAA	1675
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248	AATATTTAAA AATGTCTCAC TGTTGACATA TTTAATGTTT TAAATGTACA GATGTATTTA	1735
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250	ACTGGTGCAC TTTGTAATTC CCCTGAAGGT ACTCGTAGCT AAGGGGGCAG AATACTGTTT	1795
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252	CTGGTGACCA CATGTAGTTT ATTTCTTTAT TCTTTTTAAC TTAATAGAGT CTTGAGACTT	1855
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254	GTCAAACTA TGCAAGCAAA ATAAATAAAT AAAAATAAAA TGAATACCTT GAATAATAAG	1915
255		
256	TAGGATGTTG GTCACCAGGT GCCTTTCAAA TTTAGAAGCT AATTGACTTT AGGAGCTGAC	1975
257		
258	ATAGCCAAAA AGGATACATA ATAGGCTACT GAAATCTGTC AGGAGTATTT ATGCAATTAT	2035

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SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/09/079,569

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